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FILE 'USPAT' ENTERED AT 15:37:16 ON 16 JUL 1999

=> s 3583922/uref

L1 5 3583922/UBEF

=> d L1 1-5 cit ab

1. 5,612,305, Mar. 18, 1997, Mixed surfactant systems for low foam applications; Ronald G. Lewis, 510/220, 221, 226, 228, 367, 422, 506, 535 [IMAGE AVAILABLE]

US PAT NO: 5,612,305 [IMAGE AVAILABLE] L1: 1 of 5

ABSTRACT:

Machine dishwashing detergents are disclosed containing a compatible mixture of a low-foaming nonionic surfactant and a high-foaming nonionic surfactant. Dishes and other utensils are cleaned to a sparkling clean spot-free condition by the machine washing detergent composition of the present invention. The machine dishwashing detergent compositions of the present invention are effective especially in controlling foam encountered upon washing dishes and other utensils encrusted with soils generally encountered on dishes, specifically egg and milk-derived protein soils.

2. 4,992,195, Feb. 12, 1991, Dishwashing composition; Michael J. Dolan, et al., 510/221; 252/186.25, 187.25, 187.26; 510/108, 223, 255, 370, 507 [IMAGE AVAILABLE]

US PAT NO: 4,992,195 [IMAGE AVAILABLE] L1: 2 of 5

ABSTRACT:

There is disclosed stable aqueous slurry automatic dishwasher detergent compositions comprising a chlorine bleaching agent and a dual function bleach stabilizer and anticorrosion agent comprising sulfamic acid, or its water soluble salts. Such formulations containing a molar ratio of at least about 0.5:1 sulfamic acid/bleaching agent provides protection against corrosion of silver metal and stabilizes bleach in the detergent composition.

3. 4,600,406, Jul. 15, 1986, Method of low temperature bleaching with reduced amounts of chlorine requiring reduced bleaching intervals; George E. Corte, 8/108.1, 107 [IMAGE AVAILABLE]

US PAT NO: 4,600,406 [IMAGE AVAILABLE]

L1: 3 of 5

ABSTRACT:

A method of bleaching textile materials in water at lower temperatures and reduced time intervals wherein:
a source of bromide ions is added to the water to impart an initial concentration between 1 and 25 ppm;
a chlorine ion source is added to the water to yield an initial concentration between 25 and 90 ppm;
the wash water and textile materials are agitated for an interval between 30 seconds and 5 minutes; and
the bleached textiles are recovered.
The process may be carried at temperatures between 80.degree. and 120.degree. F. Preferred ion donating sources are sodium bromide and sodium hypochlorite. If desired, the sodium bromide may be compounded with conventional detergent formulations.

4. 4,578,119, Mar. 25, 1986, Method for clean-up of blood spills; David L. Marcus, et al., 134/4, 7; 252/194 [IMAGE AVAILABLE]

US PAT NO: 4,578,119 [IMAGE AVAILABLE]

L1: 4 of 5

ABSTRACT:

A solid, pulverulent composition for destroying pathogen activity and absorbing liquid when placed in contact with blood spills consists essentially of a chlorine source capable of yielding hypochlorous acid in contact with water, such as calcium hypochlorite, and diatomaceous earth. The composition includes sufficient of the chlorine source to provide an available chlorine level in the composition of at least 5,000 ppm and, preferably, 5,000 to 65,000 ppm.

5. 4,279,764, Jul. 21, 1981, Encapsulated bleaches and methods of preparing them; Gaylen R. Brubaker, 510/302; 252/186.34, 186.35, 187.33, 187.34; 427/212, 213, 214, 215, 220; 510/442, 444, 461, 490, 500 [IMAGE AVAILABLE]

US PAT NO: 4,279,764 [IMAGE AVAILABLE]

L1: 5 of 5

ABSTRACT:

Bleaching compositions containing a chlorine bleaching agent coated with a silicate bound, hydrated, soluble salt containing an N-H chlorine accepting compound are described. Such compositions exhibit decreased localized dye attack of colored fabrics.

=> s 3749672/uref

L2 15 3749672/UREF

=> d L2 1-15 cit

1. 5,911,909, Jun. 15, 1999, Acidic bleaching solution, method of preparation and a bleaching system for forming the same; Margaret Coyle-Rees, 252/187.25, 186.36, 187.24, 187.26; 510/303 [IMAGE AVAILABLE]

2. 5,795,487, Aug. 18, 1998, Process to manufacture stabilized alkali or alkaline earth metal hypobromite and uses thereof in water treatment to control microbial fouling; Anthony W. Dallmier, et al., 210/754; 8/107, 108.1, 109, 115.68, 115.69, 129, 137; 210/764; 252/186.21, 186.36, 186.37, 187.1; 422/14; 423/511, 579 [IMAGE AVAILABLE]

3. 5,683,654, Nov. 4, 1997, Process to manufacture stabilized alkali or alkaline earth metal hypobromite and uses thereof in water treatment to control microbial fouling; Anthony W. Dallmier, et al., 422/14; 8/108.1, 109, 115.68, 115.69, 129, 137; 252/186.21, 186.36, 186.37, 187.1; 423/511, 579 [IMAGE AVAILABLE]

4. 5,565,109, Oct. 15, 1996, Hydantoin-enhanced halogen efficacy in pulp and paper applications; Philip G. Sweeny, 210/755; 162/161; 210/754, 756, 764 [IMAGE AVAILABLE]

5. 5,380,458, Jan. 10, 1995, Stabilized hypohalite compositions; Miriam L. Douglass, 252/186.36, 187.2, 187.24, 187.25, 187.27 [IMAGE AVAILABLE]

6. 4,690,772, Sep. 1, 1987, Sterilant compositions; Elaine N. Tell, et al., 510/161; 424/665; 510/370, 379; 514/832 [IMAGE AVAILABLE]

7. 4,681,696, Jul. 21, 1987, Solid stabilized active halogen-containing detergent compositions and methods; Anthony J. Bruegge, et al., 510/231; 252/186.21, 186.34, 187.34; 510/223, 225, 230, 233 [IMAGE AVAILABLE]

8. 4,279,764, Jul. 21, 1981, Encapsulated bleaches and methods of preparing them; Gaylen R. Brubaker, 510/302; 252/186.34, 186.35, 187.33, 187.34; 427/212, 213, 214, 215, 220; 510/442, 444, 461, 490, 500 [IMAGE AVAILABLE]

9. 4,233,173, Nov. 11, 1980, Detergent compositions containing dipotassium N-chloroimidodisulfate bleaching agent; James M. Mayer, et al., 510/302, 108 [IMAGE AVAILABLE]

10. 4,229,408, Oct. 21, 1980, Method and composition for toilet holding tank; James D. Bennett, et al., 422/5; 210/755, 764; 422/36, 37; 514/643 [IMAGE AVAILABLE]

11. 4,201,687, May 6, 1980, Chloroimide fabric bleaches; Marvin M. Crutchfield, et al., 252/187.33; 423/383, 479; 424/661; 510/108, 303

[IMAGE AVAILABLE]

12. 4,065,545, Dec. 27, 1977, Stabilized hypochlorous acid and hypochlorite solutions; Philip Hugh Gamlen, 423/265, 275, 473, 474 [IMAGE AVAILABLE]

13. 4,054,518, Oct. 18, 1977, Apparatus and methods for sanitizing sewage effluent and compositions for use therein; Lawrence P. Gould, 210/752, 199, 755; 424/659 [IMAGE AVAILABLE]

14. 3,998,945, Dec. 21, 1976, Dental treatment; Jeroslav Vit, 424/53, 54 [IMAGE AVAILABLE]

15. 3,994,897, Nov. 30, 1976, Process for the manufacture of carboxylic acids from methyl ketones; Hans-Juergen Quadbeck-Seeger, et al., 544/389; 546/245, 326; 549/499; 562/400, 419, 527 [IMAGE AVAILABLE]

=> s bleach? and hypochlorite#

30344 BLEACH?
11723 HYPOCHLORITE#
L3 4073 BLEACH? AND HYPOCHLORITE#

=> s L3 and (bromide or bromine)and (amine# or -NH2)

92848 BROMIDE
74523 BROMINE
179071 AMINE#
1368 -NH2
(NH2)
L4 795 L3 AND (BROMIDE OR BROMINE)AND (AMINE# OR -NH2)

=> s L4 and hypobromite#

1141 HYPOBROMITE#
L5 123 L4 AND HYPOBROMITE#

=> s bleached hand smell

11633 BLEACHED
802787 HAND
6226 SMELL
L6 0 BLEACHED HAND SMELL
(BLEACHED(W)HAND(W)SMELL)

=> s bleached hand malodor#

11633 BLEACHED
802787 HAND
993 MALODOR#
L7 0 BLEACHED HAND MALODOR#
(BLEACHED(W)HAND(W)MALODOR#)

=> s L5 and malodor#

993 MALODOR#
L8 5 L5 AND MALODOR#

=> s 1-pyrroline

2470209 1
2243 PYRROLINE
L9 189 1-PYRROLINE
(1(W)PYRROLINE)

=> s L8 and L9

L10 0 L8 AND L9

=> s L5 and L9

L11 0 L5 AND L9

=> d L8 1-5 cit ab

1. 4,539,130, Sep. 3, 1985, Peroxygen **bleach** activators and **bleaching** compositions; James E. Thompson, et al., 510/376; 252/182.12, 186.25, 186.31, 186.38; 510/308, 312; 554/49, 52, 61, 67, 97, 225; 560/183, 187, 223, 227, 228; 564/155, 158 [IMAGE AVAILABLE]

US PAT NO: 4,539,130 [IMAGE AVAILABLE] L8: 1 of 5

ABSTRACT:

This invention relates to peroxygen **bleaching** activator compounds and **bleaching** compositions. The peroxygen **bleach** activator compounds, used in combination with peroxygen **bleach** compounds which yield hydrogen peroxide in an aqueous solution, provide effective and efficient **bleaching** of textiles over a wide range of temperatures. In a highly preferred embodiment the **bleaching** compositions of the invention are detergent compositions.

2. 4,486,327, Dec. 4, 1984, Bodies containing stabilized **bleach** activators; Alan P. Murphy, et al., 510/376; 252/186.25, 186.31, 186.38; 510/308, 312; 548/318.5; 554/49, 52, 61, 67, 97, 225; 560/183, 187, 223, 227, 228; 564/155, 158 [IMAGE AVAILABLE]

US PAT NO: 4,486,327 [IMAGE AVAILABLE] L8: 2 of 5

ABSTRACT:

The invention relates to bodies containing **bleach** activators. The bodies comprise specific peroxygen **bleach** activators and select binder or enrobing materials. When formulated in such bodies the peroxygen **bleach** activators have excellent storage stability and maintain excellent dispersibility in wash water.

3. 4,483,778, Nov. 20, 1984, Peroxygen **bleach** activators and **bleaching** compositions; James E. Thompson, et al., 510/376; 252/186.25, 186.31, 186.38; 510/308, 312; 548/318.5; 554/92, 103, 108,

US PAT NO: 4,483,778 [IMAGE AVAILABLE]

L8: 3 of 5

ABSTRACT:

This invention relates to peroxygen **bleaching** activator compounds and **bleaching** compositions. The peroxygen **bleach** activator compounds, used in combination with peroxygen **bleach** compounds which yield hydrogen peroxide in an aqueous solution, provide effective and efficient **bleaching** of textiles over a wide range of temperatures. In a highly preferred embodiment the **bleaching** compositions of the invention are detergent compositions.

4. ~~4,300,897~~, Nov. 17, 1981, Method for **bleaching** with peroxymonosulfate-based compositions; Frederick W. Gray, 8/111; 252/186.38; 510/108, 309, 494 [IMAGE AVAILABLE]

US PAT NO: 4,300,897 [IMAGE AVAILABLE]

L8: 4 of 5

ABSTRACT:

A method of **bleaching** fabrics, effective to remove stains and safe for dyed fabrics, includes **bleaching** such a fabric in an aqueous medium containing **bleaching** composition including a water soluble peroxymonosulfate **bleach**, a water soluble inorganic **bromide** which promotes the **bleaching** activity of the peroxymonosulfate and an N-hydrogen compound of a certain type, such as para-toluenesulfonamide or 5,5 dimethylhydantoin which inhibits destruction of dyes and overbleaching of dyed materials while stains to be **bleached** are effectively removed. Washing may also be effected with the **bleaching** in which case **bleaching** detergent composition are employed, which also contain a normally solid, water synthetic organic detergent, such as an anionic detergent, which may be a sodium linear higher alkylbenzenesulfonate or a higher fatty alcohol polyethylene oxide condensate, or a mixture thereof. Such compositions and the aqueous washing media may also include a builder salt.

5. 4,123,376, Oct. 31, 1978, Peroxymonosulfate-base **bleaching** and **bleaching** detergent compositions; Frederick W. Gray, 510/307; 252/186.32, 186.38; 510/108, 309, 375, 494 [IMAGE AVAILABLE]

US PAT NO: 4,123,376 [IMAGE AVAILABLE]

L8: 5 of 5

ABSTRACT:

A **bleaching** composition, effective to remove stains on fabrics and safe for dyed fabrics, includes a water soluble peroxymonosulfate **bleach**, a water soluble inorganic **bromide** which promotes the **bleaching** activity of the peroxymonosulfate and an N-hydrogen compound of a certain type, such as para-toluene sulfonamide or 5,5-dimethylhydantoin, which inhibits destruction of dyes and overbleaching of dyed materials while stains to be **bleached** by the composition are effectively removed. Also within the invention are **bleaching** detergent compositions which also contain a normally solid, water soluble synthetic organic detergent, such as an anionic detergent which is a sodium linear higher alkylbenzene sulfonate or a nonionic detergent which is a fatty alcohol polyethylene oxide condensate, or a mixture thereof, and which may also include a builder salt. Methods of **bleaching** and simultaneously washing and **bleaching** with such compositions or their components are also disclosed.